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WHAT IS CLAIMED AND DESIRED TO BE SECURED BY LETTERS PATENT OF THE UNITED STATES IS:

Claim Set # 1

- 1 1. A method, comprising the steps of:
- 2 identifying an anchor point;
- 3 defining at least one radial extending from said
- 4 anchor point; and
- 5 associating at least one item relating to said
- 6 anchor point with said radials.
- 1 2. A method of searching a single layer
- 2 database, comprising the steps of:
- determining if outside data matches information
- 4 associated with any of known locations and general
- 5 categories stored in said database displaying
- 6 information identifying said known locations; and
- displaying radials associated with said outside
- 8 data matching any of said general categories.
- 1 3. The method according to claim 1, further
- 2 comprising the steps of:
- 3 interpolating positions on a respective radial
- 4 corresponding to each of outside data matches
- 5 corresponding to the respective radial; and

- 6 placing a marker at each interpolated position of
- 7 the displayed respective radial.
- 1 4. The method according to claim 3, wherein said
- 2 marker is any of a point, notch, and icon
- 3 representation of information associated with each
- 4 outside data match.
- 1 5. The method according to claim 2, further
- 2 comprising the step of:
- 3 attaching a marker to at least one of said
- 4 radials.
- 1 6. The method according to claim 1, further
- 2 comprising the step of:
- 3 storing said radials in a database;
- 4 wherein,
- 5 said step of identifying an anchor point comprises
- 6 the step of,
- 7 identifying said anchor point in said database,
- 8 and
- 9 said step of associating comprises the step of,
- 10 associating information in said database with said
- 11 radials, said information relating to said anchor
- 12 point.

- 7. The method according to claim 6, wherein said
- 2 database is a geocoded database of mapping information,
- 3 and said items are locations within an area associated
- 4 with said anchor point.
- 1 8. The method according to claim 6, wherein said
- 2 database is a database of satellite information, said
- 3 anchor point represents a position on a globe, and said
- 4 items are satellites orbiting above an approximate
- 5 position of said anchor point.
- 9. The method according to claim 8, wherein each
- 2 radial identifies at least one feature of at least one
- 3 of said satellites.
- 1 10. The method according to claim 6, further
- 2 comprising the steps of:
- 3 matching outside data to information associated
- 4 with said items; and
- 5 displaying each radial having associated
- 6 information that matches said outside data.

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- 1 11. The method according to claim 10, wherein
- 2 said outside data is location information of data
- 3 stored in said database.
- 1 12. The method according to claim 1, wherein said
- 2 step of defining a radial comprises the steps of:
- 3 assigning a direction to each respective radial;
- 4 and
- 5 calculating an endpoint for each respective
- 6 radial, defining each respective radial from said
- 7 centroid to its endpoint.
- 1 13. The method according to claim 12, wherein
- 2 said step of determining a direction of said radial
- 3 comprises the step of:
- 4 assigning a direction to each respective radial
- 5 based on at least one of information and features of
- 6 the item associated with the respective radial.
- 1 14. The method according to claim 13, wherein
- 2 said information and features is at least one of a
- 3 margin of error with which said anchor point identifies
- 4 a location corresponding to said item, facilities,
- 5 including any one of parking, food, and communications

- 6 associated with said item, and any other information or
- 7 features related to said item.
- 1 15. The method according to claim 1, wherein said
- 2 anchor point is a centroid and each item is a location
- 3 within an area associated with said centroid.
- 1 16. The method according to claim 15, wherein
- 2 each radial identifies a location within an area of
- 3 said centroid, and a proximity of said location to said
- 4 centroid.
- 1 17. The method according to/claim 2, wherein said
- 2 step of displaying comprises the steps of:
- displaying said radials, and
- 4 displaying distinguishing marks on respective
- 5 radials having associated items with features
- 6 corresponding to said/distinguishing marks.
- 1 18. The met/hod according to claim 17, wherein
- 2 said distinguishing marks are at least one of color of
- 3 said radials, any of points, marks, or notches,
- 4 geometric shapes, flags, and shapes of said radials.

19. The method according to claim 17, wherein said features are any of proximity of said matching outside data to a base point, facilities, including restrooms, food availability, and parking associated with said items, demographics associated with said items, and any other features associated with said items.

Claim Set #2 -- Consolidated database

1. A method of building a database, comprising the steps of:

loading data items having known and unknown locations into said database;

location coding each of said data items having known locations;

associating each of said items having unknown locations with a line representing the unknown location.

2. The method according to Claim 1, wherein said step of associating comprises the step of:

identifying an anchor point related to said unknown location;

defining said line including said anchor point; and

storing said line in association with said unconfirmed location.

3. The methods according to Claim 2, wherein said step of storing comprises at least one of:

storing an end point in association with said anchor point; and

storing a direction and distance from said anchor point.

4. The method according to Claim 2, wherein said step of defining includes the steps of:

defining a direction of said line corresponding to at least one characteristic of said unconfirmed location.

- 5. The method according to Claim 4, wherein said characteristic is a precision of said anchor point as an approximation of said unconfirmed location.
- 6. The method according to Claim 1, wherein said anchor point is a centroid related to said unconfirmed location.
- 7. The method according to Claim 5, wherein:
 said anchor point is a zip code centroid; and
 said direction identifies a zip + XX precision of
 the zip code centroid as an approximation of said
 unconfirmed location.

Claim Set #3 -- Method of searching a one layer database

1. A method, comprising the steps of:

searching a data layer for matches to a set of at least one searching criteria;

displaying data layer matches having confirmed locations on a display grid; and

extending a radial from an anchor point associated with a search criteria not matched in said searching step.

2. The method according to Claim 1, wherein said step of extending a radial comprises the step of:

extending said radial in a direction identified with a characteristic consistent with the search criteria not matched.

3. The method according to Claim 2, wherein said characteristic is a precision of said anchor point with respect to an approximate location on said display grid of the search criteria not matched.

- 4. The method according to Claim 3, wherein said precision is a zip + XX precision, and said anchor point is a zip code centroid.
- 5. The method according to Claim 1 wherein said step of extending a radial comprises the step of:

including an icomic representation on said radial identifying a characteristic of the search criteria not matched.

- 6. The method according to Claim 1, wherein said display grid is a map.
- 7. The method according (to Claim 1, wherein: said step of searching includes the step of, receiving said set of at least one searching criteria via a first communication mechanism; and

said step of displaying comprises sending display data corresponding to said data layer matches via a second communication mechanism to a display device.

8. The method according to Claim 7, wherein:
said first and second communication mechanisms
are at least one of, an Internet connection, a wide
area network, a local area network, a satellite

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communication mechanism, a radio communication mechanism, a telephone connection, a cable modem mechanism, and other communication mechanisms; and

said display device is one of a flat panel display, a CRT, a browser window, a notebook computer display, a palm pilot, a cellular phone display panel, VR headset, and other display mechanisms.